

ABSTRACT OF THE DISCLOSURE

A method of increasing utilization of user link bandwidth for a code division multiple access
5 communications system is disclosed that includes the steps
of selecting a set of orthogonal complex codes each having
a code length that is greater than a code length of an
optimum real code and less than or equal to a spreading
code length; and transferring symbols across at least one
10 of a plurality of user links to or from at least one of a
corresponding plurality of user terminals wherein the
symbols are represented by a corresponding one of the set
of orthogonal complex codes.